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[1. A12-100: 3 kW Lightweight Efficient Generator](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: The objective of this project is to design, develop, and demonstrate an advanced small, lightweight man portable multi-fueled 3,000 W power unit. A key tenet of this power unit is that it should take advantage of recent advances in small lightweight high speed internal combustion engines which include but are not limited to unmanned aerial vehicles (UAV) engines. DESCRIPTION: The ...

SBIR Army

[2. AF11-BT04: 3-D nondestructive imaging techniques for mesoscale damage analysis of composite materials](#)

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons OBJECTIVE: Develop techniques for detecting and modeling the evolution of damage in composite materials such as plastic bonded explosives or concretes using nondestructive means. DESCRIPTION: In hard target penetration, the onboard energetic material may be subjected to severe environments of both pressure and shear loading. Dama ...

STTR Department of Defense

[3. DTRA122-017: 3-D Visualization of Hazard Prediction Plumes](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Investigate and develop a method for taking gridded data from a CBRNE analysis tool (HPAC, IWMDT, JEM) and display the data in a 3-D rendering, capable of being ported to current C2 systems to include ARCGIS and GOGGLE Earth like applications. DESCRIPTION: Current analysis for CBNRE toolsets are displayed as 2-D visualizations at a selected time step. These images are then placed ...

SBIR Defense Threat Reduction Agency

[4. MDA12-003: 3G and 4G Communication System Interference Remediation Techniques](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: This research seeks novel algorithms and signal processing techniques that will minimize Aegis-to-3G&4G and 3G&4G-to Aegis interference. Space-time, adaptive and other approaches are sought for broadest utility and generality. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of novel RF modulation, timing and phasing as well as orthogonal and bi-static ...

SBIR Missile Defense Agency

5. [AF141-250: 64MB+ Radiation-Hardened, Non-Volatile Memory for Space](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Develop and commercialize 64MB (min, MB=1,000,000 bytes of memory, 1 byte=8 bits), radhard, nonvolatile memory (RHNVM) for space applications. DESCRIPTION: The lack of low-cost high-density Radiation-Hardened (RH) Non-Volatile Memory (NVM) continues to be a severely limiting factor in the design of systems for use in space environments. Present solutions rely on inefficient hard ...

SBIR Department of DefenseAir Force

6. [ST13A-004: A Flexible and Extensible Solution to Incorporating New RF Devices and Capabilities into EW/ ISR Networks](#)

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop a representation with formal semantics for the static and dynamic characteristics of Radio Frequency (RF) devices. DESCRIPTION: In military applications, RF devices constitute a heterogeneous network of receivers/transmitters deployed primarily for the purpose of communicating tactical information. However, current RF devices are highly versatile and have the potential of fulfilling various functions in support of various tasks such as Situational Awareness, Electronic Warfare/Intelligence, Surveillance and Reconnaissance (EW/ISR).

STTR Defense Advanced Research Projects Agency

7. [DHP13-010: A Human Body Model for Computational Assessment of Blast Injury and Protection](#)

Release Date: 04-24-2013Open Date: 05-24-2013Due Date: 06-26-2013Close Date: 06-26-2013

OBJECTIVE: Formulate, develop and demonstrate anatomically consistent, articulated human body model for computational assessment of explosion blast injury loads, body responses and casualty estimation and for analysis of personal protective equipment. DESCRIPTION: Blasts from improvised explosive devices (IEDs) are the most common cause of wounded-in-action injuries and death in recent milita ...

SBIR Defense Health Program

8. [A14-041: A LIDAR for Mapping Dense Aerosols](#)

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective is to develop a scanning lidar to measure the spatial evolution of dense obscurant clouds (one way transmission 0.25%) with high temporal and spatial resolution. The system should be capable of measuring an obscurant concentration point cloud contained in a 10x10x10 meter measurement volume with sample spacing of 1/5 meters and a total 3D cloud update rate of 1Hz. This m ...

SBIR Department of DefenseArmy

9. [075: A Low Molecular Weight Thyroid-Stimulating Hormone Receptor Agonist for Thyroid Cancer \(NIH TT\)](#)

Release Date: 08-25-2011Open Date: 08-25-2011Due Date: 11-07-2011Close Date: 11-07-2011

NIDDK investigators have discovered and are evaluating the first potent and efficacious small molecule agonist of the thyroid-stimulating hormone (TSH, thyrotropin) receptor (TSHR) that has potential for clinical application in patients with thyroid cancer. This agonist drug is intended for use in patients for 2-5 days at a time following thyroidectomy and at subsequent intervals after in ...

SBIR Department of Health and Human Services

10. [147: A Mobile Application to Help Patients Take their Pill Medications as Prescribed: Improving Medication Adherence](#)

Release Date: 08-15-2012Open Date: 08-15-2012Due Date: 12-03-2012Close Date: 12-03-2012

It is strongly suggested that proposals adhere to the above budget amounts and project periods. Proposals with budgets exceeding the above amounts and project periods may not be funded. Drugs don't work in patients who don't take them. — C. Everett Koop, M.D, former U.S. Surgeon General Medication adherence is described as the extent to which patients take medications as prescribed by their ...

SBIR Department of Health and Human Services

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